D0 Trigger Database

D0 Taking Stock 2006

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D0 Trigger DB Taskforce

CD/REXDB

No DB Server design

- No DB Server
  - direct DB access by Apache
- No CGI
  - mod_python
- No personal DB accounts for production users needed
  - trigsim users need "sandbox" accounts
- FNAL KCA-issued X509 certificates as authentication/authorization mechanism

Current Deployment

- Production
  - DB server – d0ora2
    - d0ofprd1
  - Web server – d0ora2
- Integration
  - DB server – d0ora2
    - D0ofint1
    - Used for trigsim users "sandboxes" too
  - Web server – d0ora2
    - Same Apache instance as Production

Current Deployment

- Development
  - DB server – d0ora1
    - d0ofdev1
  - Web server – d0ora1
  - Individual instances of Apache managed by developers
  - Occasionally used by users for testing/demo purposes

Old Interface

- Old cgi/dbserver instance of GUI is being deprecated
- Development has been frozen since December
- Kept mostly as a backup and for some functionality
- Support will be discontinued soon

Backups

- Daily exports of Trigger DB
- 30 latest snapshots are kept on disk
- All snapshots are saved to tape

Future Plans

- Migration to new DB schema (with L2 groups, 2 more tables)
- Space increase is negligible
  - ~1-10 Megabytes
- New DB with UI are being tested in development

- Migration to Linux
  - Web server
  - DB server ??

Support

- D0 claim they need 24x7 support for the application – DB servers, Web servers

Conclusion

- Trigger DB is in steady state
- No major changes are expected
- We are happy customers ☺